

PLANAR LIGHT SOURCE

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Abstract

PURPOSE: To provide a planar light source wherein a blue light emitting diode is used and white luminescence is feasible, and wherein uniform white luminescence can be observed.

CONSTITUTION: Light emitting diodes 1 are optically connected with the end of a transparent light transmitting plate 2. A fluorescent substance that emits light when energized by the luminescence of the blue light emitting diodes 1 and white powder that scatters fluorescence, are mixed. The resultant mixture is applied to either of the major surfaces of the light transmitting plate 2 to form a fluorescence scattering layer 3. The wavelength of the luminescence of the blue light emitting diodes 1 is changed through the fluorescence scattering layer 3.

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